

Notice of Allowability

Application No.

10/730,387

Examiner

Leon Flores

Applicant(s)

RAHMAN ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 4/26/2007.
2. ☒ The allowed claim(s) is/are 1-26.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

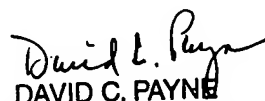
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


DAVID C. PAYNE

SUPERVISORY PATENT EXAMINER

DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the limitation/features disclosed in claim 26 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Allowable Subject Matter

2. Claims 1-26 are allowed.
3. The following is an examiner's statement of reasons for allowance: The art of record does not suggest the respective claim combinations together and nor would the respective claim combinations be obvious with:
4. Re claim 1, the further limitation of, *"a method for controlling a bandwidth of an analog filter circuit comprising: performing a DC offset correction operation in the analog filter circuit to generate a DC offset correction signal; holding the DC offset correction signal in the analog filter circuit; adding a training signal to the DC offset correction signal; determining a magnitude of a filtered input signal using the training signal and the DC offset correction signal; determining a magnitude of the filtered input signal at a predetermined frequency using the training signal and the DC offset correction signal; determining a difference between the magnitudes of the filtered input signal and the filtered input signal at the predetermined frequency; comparing the difference to a predetermined threshold value to generate an error metric; and using the error metric to adjust the bandwidth frequency of the analog filter circuit"*. Claims 2-13 depends on claim 1 above.
5. Re claim 14, the further limitation of, *"a filter circuit comprising: an analog filter element having an input for receiving an analog input signal, an output for providing a filtered output signal, and a control input for receiving a control signal for adjusting a bandwidth frequency of the analog filter element to a predetermined bandwidth frequency; an analog-to-digital converter having an input coupled to the output of the*

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analog filter element, and an output; a digital tracking loop having an input coupled to the output of the analog-to-digital converter, and an output coupled to the control input of the analog filter element, the digital tracking loop for comparing a magnitude difference to a predetermined threshold to generate an error signal, the error signal used to generate the control signal, where the magnitude difference is determined by subtracting a first magnitude of the analog input signal over a predetermined frequency range to a second magnitude of the analog input signal over the predetermined frequency range". Claims 15-25 depends on claim 14 above.

6. Re claim 26, the further limitation of, *"a filter circuit comprising: an analog filter element having an input for receiving an analog input signal, an output for providing a filtered output signal, and a control input for receiving a control signal for adjusting a bandwidth frequency of the analog filter element to a predetermined bandwidth frequency; an analog-to-digital converter having an input coupled to the output of the analog filter element, and an output; a digital tracking loop having an input coupled to the output of the analog-to-digital converter, and an output coupled to the control input of the analog filter element, the digital tracking loop for comparing a magnitude difference to a predetermined threshold to generate an error signal, the error signal used to generate the control signal, where the magnitude difference is computed by subtracting a magnitude of an analog input signal over a predetermined frequency range approximately at the analog filter's center frequency to a magnitude of the analog input signal over the predetermined frequency range approximately at the bandwidth frequency of the analog filter".*

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

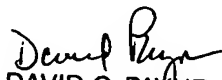
Contact

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leon Flores whose telephone number is 571-270-1201. The examiner can normally be reached on Mon-Fri 7-5pm Alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Payne can be reached on 571-272-3024. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

LF
May 24, 2007


DAVID C. PAYNE
SUPERVISORY PATENT EXAMINER